

ABSTRACT

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3 An encoding system for determining position and position changes of a
4 moving member has a sequence of encoder marks forming incremental pat-
5 terns and at least one index pattern. Two subsequent incremental patterns
6 are indicative of an incremental position-change of the moving member and
7 the index pattern is indicative of a reference position of the moving member.
8 A sensor arrangement views a section of the encoder-mark sequence, the
9 length of which is greater than one position-change increment. An analyzer is
10 arranged to analyze an encoder-mark pattern in the viewed section with re-
11 gard to the incremental patterns and the index pattern and to generate, in re-
12 sponse to a pattern match found, at least one of an incremental-position-
13 change signal and an index signal.